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Attorney Docket No.

**A3401-US-NP**

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on 10/20/2004  
Date

Francie S. LePore  
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**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

In re Application of Yiliang Wu et al.

Group Art Unit: 2814

Application No.: 10/733,136

Examiner:

Filed: December 11, 2003

Confirmation No.: 7393

For: NANOPARTICLE DEPOSITION PROCESS

Commissioner for Patents  
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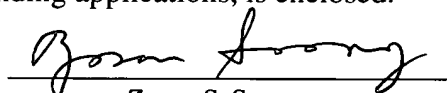
Sir:

**SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT**

Pursuant to 37 C.F.R. 1.56, the attention of the Patent and Trademark Office is hereby directed to the reference(s) and information listed on the attached PTO-1449 Form. One legible copy of each is attached to the PTO-1449 Form, except for U.S. Patents or published U.S. applications. It is respectfully requested that the references and information be expressly considered during the prosecution of this application, and that the reference(s) be made of record therein and appear among the "References Cited" on any patent to issue therefrom.

- ☒ 1. This Information Disclosure Statement is being filed (a) within three months of the U.S. filing date of the above application (excluding an RCE), **OR** (b) before the mailing date of a first Office Action on the merits (including an RCE). *No certification or fee is required.*
- ☐ 2. This Information Disclosure Statement is being filed more than three months after the U.S. filing date **AND** after the date of the first Office Action on the merits, but before the mailing date of a Final Rejection, Notice of Allowance, or other action that closes prosecution. Please debit Xerox Corporation Deposit Account 24-0025 in the amount of \$180.00 in payment of the fee under 37 C.F.R. 1.17(p). *(A copy of this paper is attached.)*
- ☐ 3. This Information Disclosure Statement is being filed more than three months after the U.S. filing date and after the mailing date of the first Office Action on the merits, but before the mailing date of a Final Rejection or Notice of Allowance; **AND**
- ☐ a. I hereby certify that each item of information contained in this Information Disclosure Statement was first cited in a communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of this Information Disclosure Statement. 37 C.F.R. 1.97(e)(1); **(OR)**

- ☐ b. I hereby certify that no item of information in this Information Disclosure Statement was cited in a communication from a foreign patent office in a counterpart foreign application or, to my knowledge after making reasonable inquiry, was known to any individual designated in 37 C.F.R. §1.56(c), more than three months prior to the filing of this Information Disclosure Statement. 37 C.F.R. 1.97(e)(2)
- ☐ 4. This Information Disclosure Statement is being filed after the mailing date of a Final Rejection or Notice of Allowance, but before the payment of the Issue Fee. Please debit Xerox Corporation Deposit Account 24-0025 in the amount of \$180.00 in payment of the fee under 37 C.F.R. 1.17(p) (*A copy of this paper is attached*); **AND**
- ☐ a. I hereby certify that each item of information contained in this Information Disclosure Statement was first cited in a communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of this Information Disclosure Statement. 37 C.F.R. 1.97(e)(1); **(OR)**
- ☐ b. I hereby certify that no item of information in this Information Disclosure Statement was cited in a communication from a foreign patent office in a counterpart foreign application or, to my knowledge after making reasonable inquiry, was known to any individual designated in 37 C.F.R. §1.56(c) more than three months prior to the filing of this Information Disclosure Statement. 37 C.F.R. 1.97(e)(2)
- ☐ 5. Per 37 C.F.R. 1.98(a)(3), a concise explanation of the relevance of each of any submitted item that is NOT in the English language is either enclosed herewith, or incorporated in the application specification.
- ☐ 6. A copy of an English language version of an above-referenced counterpart foreign application search report is attached.
- ☐ 7. Copies of some or all of the subject references were cited by, or submitted to the Office in related parent Application No. \_\_\_\_\_, filed \_\_\_\_\_, which is relied upon under 35 U.S.C. §120. Thus, copies of these references are not attached (except for copies of cited pending applications). 37 C.F.R. §1.98(d).
- ☐ 8. A copy of each copending application recited in the parent application of paragraph 7 above, and/or a copy of other related copending applications, is enclosed.



Zosan S. Soong

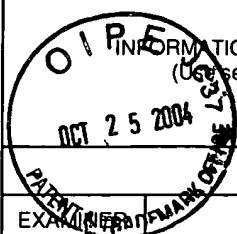
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Date October 20, 2004

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Form PTO-1449		US Dept. of Commerce PATENT & TRADEMARK OFFICE		ATTY DOCKET NO. A3401-US-NP		APPLICATION NO. 10/733,136	
 INFORMATION DISCLOSURE STATEMENT (Use several sheets if necessary)				APPLICANT Yiliang Wu et al.			
				FILING DATE 12/11/2003		GROUP ART UNIT 2814	
U.S. PATENT DOCUMENTS							
EXAMINER INITIAL	DOCUMENT NUMBER	PUBLICATION DATE	NAME OF PATENTEE		CLASS	SUB CLASS	
	6,688,494	2/10/04	Pozarnsky et a		222	4	
	6,572,673	6/3/03	Lee et al.		75	362	
	6,103,868	8/15/00	Heath et al.		528	482	
	5,147,841	9/15/92	Wilcoxon		502	173	

## FOREIGN PATENT DOCUMENTS

	COUNTRY	DOCUMENT NUMBER	PUBLICATION DATE	NAME OF PATENTEE OR APPLICANT	TRANSLATION Y/N

## OTHER DOCUMENTS (Including Author (in CAPS), Title, Publication Date, Pages, etc.)

	Yuning Li et al., filed October 5, 2004, US Application Serial No. 10/958,937, titled "STABILIZED SILVER NANOPARTICLES AND THEIR USE" (Attorney Docket No. 20040823-US-NP).
	D. Huang et al., "Plastic-Compatible Low Resistance Printable Gold Nanoparticle Conductors for Flexible Electronics", <i>Journal of The Electrochemical Society</i> , Vol. 150, No. 7, pp. G412-G417 (2003).
	C. A. Bulthaupt et al., "All-additive fabrication of inorganic logic elements by liquid embossing", <i>Applied Physics Letters</i> , Vol. 79, No. 10, pp. 1525-1527 (September 3, 2001).
EXAMINER	DATE CONSIDERED
Examiner: Initial if citation considered, whether or not citation is in conformance with M.P.E.P. 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.	

Form PTO-1449 US Dept. of Commerce PATENT & TRADEMARK OFFICE INFORMATION DISCLOSURE STATEMENT (Use several sheets if necessary)	ATTY DOCKET NO. A3401-US-NP	APPLICATION NO. 10/733,136
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OTHER DOCUMENTS (Including Author (in CAPS), Title, Publication Date, Pages, etc.)		
	G. Blanchet and J. Rodgers, "Printed Techniques for Plastic Electronics", <i>Journal of Imaging Science and Technology</i> , Vol. 47, No. 4, pp. 296-303 (July/August 2003).	
	P. Buffat and J-P. Borel, "Size effect on the melting temperature of gold particles", <i>Physical Review A</i> , Vol., 13, No. 6, pp. 2287 - 2298 (June 1976).	
	C. Hayashi, "Ultrafine Particles", <i>J. Vacuum Sci. Technol. A</i> , Vol. 5, No. 4, pp. 1375 -1384 (Jul/Aug 1987).	
	S. B. Fuller, E. J. Wilhelm, and J. M. Jacobson, "Ink-Jet Printed Nanoparticle Microelectromechanical Systems", <i>Journal of Microelectromechanical Systems</i> , Vol. 11, No. 1, pp. 54-60 (February 2002).	
	X. Z. Lin, X. Teng, and H. Yang, "Direct Synthesis of Narrowly Dispersed Silver Nanoparticles Using a Single-Source Precursor", <i>Langmuir</i> , Vol. 19, pp. 10081 – 10085 (published on web November 1, 2003).	
	H. Hiramatsu and F. E. Osterloh, "A Simple Large-Scale Synthesis of Nearly Monodisperse Gold and Silver Nanoparticles with Adjustable Sizes and with Exchangeable Surfactants", <i>Chem. Mater.</i> , Vol. 16, No. 13, pp. 2509 – 2511 (June 29, 2004; published on web May 28, 2004).	
EXAMINER	DATE CONSIDERED	
Examiner: Initial if citation considered, whether or not citation is in conformance with M.P.E.P. 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.		